

Title (en)  
FORTIFIED HIGH TORQUE DEVICE

Title (de)  
VERSTÄRKT VORRICHTUNG MIT HOHEM DREHMOMENT

Title (fr)  
DISPOSITIF À COUPLE ÉLEVÉ FORTIFIÉ

Publication  
**EP 3125791 A4 20171129 (EN)**

Application  
**EP 15774360 A 20150327**

Priority  
• US 201461973624 P 20140401  
• US 201461973657 P 20140401  
• US 2015023147 W 20150327

Abstract (en)  
[origin: WO2015153376A1] A torque-limiting device which may include a shaft extending axially through a clutch assembly and a spring to connect to a nut. The upper and lower shanks may be under a force from the spring and further configured to selectively engage within a predetermined torque limit and disengage at above the predetermined torque limit. Accordingly, the shaft may receive torque up to the predetermined limit as provided by a user operating a handle of the torque-limiting device. The torque-limiting device may be disposable, reusable, economical, and have high torque capabilities.

IPC 8 full level  
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CPC (source: EP US)  
**A61B 17/8875** (2013.01 - EP US); **A61B 90/03** (2016.02 - EP US); **B25B 23/141** (2013.01 - US); **B25B 23/1427** (2013.01 - EP US);  
**A61B 2090/031** (2016.02 - EP US)

Citation (search report)  
• [I] US 2013226192 A1 20130829 - NINO JOHN [US], et al  
• [I] US 2013319190 A1 20131205 - NINO JOHN [US], et al  
• [A] US 2013327190 A1 20131212 - LAURENTI RICCARDO [IT]  
• See references of WO 2015153376A1

Designated contracting state (EPC)  
AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)  
**WO 2015153376 A1 20151008**; CA 2937772 A1 20151008; CA 2937772 C 20220621; EP 3125791 A1 20170208; EP 3125791 A4 20171129;  
EP 3125791 B1 20221005; US 10160105 B2 20181225; US 2016354906 A1 20161208

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**US 2015023147 W 20150327**; CA 2937772 A 20150327; EP 15774360 A 20150327; US 201615241464 A 20160819